### (19) World Intellectual Property Organization

International Bureau





## (43) International Publication Date 27 October 2005 (27.10.2005)

### **PCT**

# (10) International Publication Number WO 2005/101360 A1

(51) International Patent Classification<sup>7</sup>: G09G 3/32

(21) International Application Number:

PCT/US2005/009028

(22) International Filing Date: 17 March 2005 (17.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 2004-101143 30 March 2004 (30.03.2004) JI

(71) Applicant (for all designated States except US): EAST-MAN KODAK COMPANY [US/US]; 343 State Street, Rochester, NY 14650 (US).

(72) Inventors; and

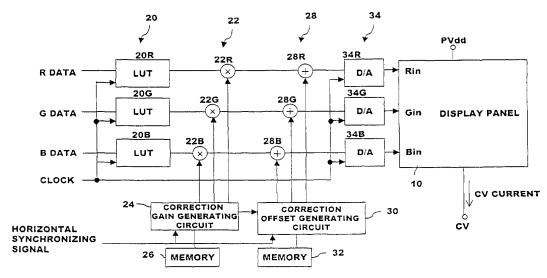
(75) Inventors/Applicants (for US only): MIZUKOSHI, Seiichi [JP/JP]; 8-32 Motomachi, Chigasaki-shi, Kanagawa (JP). MORI, Nobuyuki [JP/JP]; Berunoki House 2 105, 1-5-10 Sakae-cho, Asaka-shi, Saitama (JP). ONOMURA, Kouichi [JP/JP]; 2467-422, Ikebe-cho, Tsuzuki-ku, Yokohama-shi, Kanagawa (JP). KOHNO, Makoto [JP/JP]; 506,

29-5, Chigaski-chuo, Tsuzuki-ku, Yokohama-shi, Kanagawa (JP).

- (74) Common Representative: EASTMAN KODAK COM-PANY; 343 State Street, Rochester, NY 14650 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

### (54) Title: ORGANIC ELECTROLUMINESCENT DISPLAY APPARATUS



(57) Abstract: An organic EL display apparatus including in each display pixel an organic EL element. A drive transistor supplies a drive current that depends on brightness data and having the display pixels arranged in a matrix form. The display includes a correction gain storage unit for storing display pixel positions and a correction gain for correcting the slope of the brightness-data-based drive current of the drive transistors in the display pixels; and a correction unit for correcting pixel-by-pixel brightness data depending on the pixel position using the correction gain stored in the correction gain storage unit into brightness data for the pixel to generate corrected brightness data, each of the display pixels is displayed by driving its drive transistor in response to the data generated by the correction gain storage unit and the correction unit and supplying the corresponding organic EL element with the drive current.

#### 

### Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.